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The Files - Contract 635, Task Order 1

28 October 1959

[redacted]

DOCUMENT NO. \_\_\_\_\_ 50X1

NO CHANGE IN CLASS. ☐☐ DECLASSIFIED

Conference Report - Off-Line [redacted]

CLASS. CHANGED TO: TS S © 2010 50X1

NEXT REVIEW DATE: \_\_\_\_\_

AUTH: HR 70-2

DATE: 9 DEC 1980

REVIEWER: 064540

1. On 15 October 1959 a representative of the [redacted] Corporation, 50X1  
[redacted] visited Headquarters to discuss the possibility of 50X1  
including the [redacted] into the memory off-line 50X1  
keyer presently being developed by [redacted] Persons present for this 50X1  
discussion were:

[redacted] 50X1

2. [redacted] supplied the attached outline which compares the 50X1  
relative size and number of components of the memory device, [redacted] 50X1  
keyer, and other possible combinations of these two units. Option 1  
on the attachment shows the proposed size of the memory unit. Option  
2 shows the size of the [redacted] Option 3 is a combination of the 50X1  
[redacted] 12-character keyboard and memory, and has an overall size of. 50X1  
4-3/4 x 3 1/2 x 1-13/16 inches. The total number of components for this  
combination is 2,599 and is exclusive of the number of cores in the  
memory plane. It was interesting to note that the power consumption  
of the memory device and the [redacted] together is approximately twice the 50X1  
power consumption of the memory unit with keyboard. Option 4 is  
identical to option 3 with the exception that the keyboard itself is  
removable. Options 5 and 6 are identical to options 3 and 4 in all  
respects except the increase in number of characters from 12 to 32.  
It should be noted here that no power or dimensional change is re-  
quired by the increase of the keyboard from 12 to 32 characters.

3. [redacted] pointed out that by the combination of the key- 50X1  
board into the memory device, a cost savings of approximately \$30.00  
per unit item (memory [redacted] is available because of the reduction in 50X1  
number of special components. [redacted] further pointed out, as indicated 50X1  
on the attachment, that to incorporate the keyboard into the memory  
device a schedule change will have to be made to increase the period  
of the contract from four to eight weeks depending upon the option we  
select. [redacted] was informed that he would be notified within the 50X1  
week as to which option this Agency desires.

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SUBJECT: Conference Report - [redacted] Memory

50X1

4. In discussing the proposed options for modifying the [redacted] program with [redacted] OC-T, the following comments were made. With the memory capacity remaining the same (2,560 bits), a total group count of 100 words may be stored. In the Cyrillic codes, message text of 50 words may be stored when using the 12-character keyboard, and 41 groups of message text would be stored when using the 32-character keyboard. This fact is based on the assumption that the translation of Cyrillic characters to numerical figures is a 1:2 ratio. When using the 32-character keyboard the total number of groups is reduced from 100 words to 83 words because of having to store additional pulse information per character over that of the 12-character keyboard. In reviewing the overall possibilities presented from these options, [redacted] stated that he wanted the 12-character keyboard of the [redacted] to become an integral part of the memory device (Option 3).

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5. On 23 October 1959 the writer telephoned [redacted] Corporation to inform them of what option this Agency desired. [redacted] was contacted and was informed of the following.

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- a) This Agency desires to have the 12-character keyboard of the [redacted] incorporated as an integral item into the design of the memory device.
- b) The memory plane capacity will remain the same.
- c) Formal notification would be undertaken through the Contracts Administration people.

50X1

[redacted] stated that design of the memory plane and associated circuitry was such that increasing the keyboard at a later date to 32 characters would be a simple task; and additionally, increasing the memory core or capacity of the device again was not of major concern.

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Attachment:  
Outline of [redacted] Combinations

50X1

Distribution: R&D Subject File w/attach.  
- R&D Lab w/o attach.  
OC-T w/o attach.  
Monthly (2) w/o attach.  
EP Chrono w/o attach.  
OC-E/R&D-EP/DWR:maf (28 Oct. 59)